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A COMBINATION MOISTURE/TERMITE BARRIER IN SHEET FORM

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(57) —

A combination moisture/termite barrier in sheet form comprising moisture protection membrane(s) and integrated, bonded or sandwiched poisonous or repellent chemicals.

Claim Indefinite

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COMPLETE SPECIFICATION

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Complete Specification for the invention entitled: COMBINATION MOISTURE AND
TERMITE BARRIER (UNDERLAY, WRAP OR D.P.C.) AND SEALING COMPONENTS

The following statement is a full description of this invention, including the best method of performing it known to me:—

Note: The description is to be typed in double spacing, pica type face, in an area not exceeding 280 mm in depth and 160 mm in width, on tough white paper of good quality and it is to be inserted inside this form.

1.
COMPLETE SPECIFICATION FOR THE INVENTION ENTITLED
COMBINATION MOISTURE AND TERMITE BARRIER (UNDERLAY, WRAP OR
D.C.P.) AND SEALING COMPONENTS.

Introductory Statement

The Combination Moisture /Termite Barrier is related to the construction industry and its allied trades. In its various forms it can be used both as a built-in component and as a protector for materials stored.

The object of the Combination Moisture/Termite Barrier is to protect buildings and materials from both moisture and attack from termites or other pests.

- 10 The invention is a fabricated membrane that is placed under ground slabs, through walls or elsewhere as protection is required. It combines the functions performed by the sheet plastic underlay, wrap or damp proof course (being a moisture barrier) and the treatment of soils (being the termite barrier).

This method of providing protection would have many advantages over traditional methods now employed: especially with respect to the human and environmental considerations.

Termite protection would be provided using a simple, dry, site process.

Chemical spraying of the soil under most buildings could be eliminated.

- 20 With correct detailing and application, protection would be permanent and retreatments (as required with traditional protection methods) would be eliminated.

Manufacture of the membranes and associated elements would be in a factory under controlled conditions. There would be no risk to following trades- people; eliminating the cause of some delays in construction.

Protection could be extended past the limits set by the traditional spraying methods

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by the integration of the slab underlay , cavity protection (d.p.c.) and any external membrane required (ie brick paving).

This method of protection could result in a very substantial reduction in the quantity of chemicals being sprayed into the atmosphere and into the ground and there would be very substantial cost savings over the traditional protection methods

30 used due to the:

- I) Combining of the two construction elements (moisture and termite protection).
- II) Accurate control of chemicals required during the manufacturing process.
- III) Elimination of chemical wasted during the traditional spraying on building sites (misuse, accidents, vapourisation)
- IV) Elimination of the possibility of under or over treatment of the ground under buildings.
- V) Need for a simple , visual inspection to define the areas covered by the barrier.
- VI) Barrier's useful life being equal to the life of that being protected, without the requirement of retreatment.

40 Description

The combination Moisture/Termite Barrier is sheet or strip barriers placed in a similar manner to the conventional moisture membranes or damp proof courses. The invention can be constructed in monolithic, laminated or sandwich form. The poison or repellent (a compatible chemical solution or powder) providing the termite protection is integrated with, bonded to or sandwiched between membrane/s providing the moisture protection. All laps and penetrations would be sealed with a purpose-made tape, or purpose made, pretreated moulded fittings offering the same protection to form an unbroken barrier.

The preferred forms of the invention are:

50 Integration/Monolithic (Fig 1)

In this form the flexible underlay quality, or damp proof course quality, moisture barrier is impregnated with the repellent/poison.

Bonding (Fig 2)

In this form the barrier is constructed in two layers. One layer being the agent impregnated with the repellent/poison, the other a flexible, underlay quality or damp proof course quality, moisture barrier. Both layers are bonded together.

Sandwich (Fig 3)

In this form the barrier is constructed in three layers. The outer layers are flexible, underlay quality or damp proof course quality moisture barriers. The sandwiched

60 layer being the agent impregnated with the repellent /poison. All layers are bonded together. Bonding may be mechanical or heat process.

Tapes

Narrow strips and tapes are constructed in a similar manner to the sandwich form.

One outer layer (protective veneer) is peeled back and removed. The exposed repellent/poison (sandwich layer) is applied to joins and openings and sheets and around penetrations to provide an unbroken barrier.

Purpose Made Fittings

Moulded, purpose made fittings to suit the various sized pipes and ducts penetrating the barrier are preformed and pretreated. These can be placed and sealed

70 against the barrier and penetrations.

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The claims defining the invention are as follows:

Claim 1

The Combination Moisture/Termite Barrier combines the two elements, moisture protection and termite protection, into the one element, the placing of which provides a permanent, unbroken barrier to moisture, termites and other pests.

Claim 2

The Combination Moisture/Termite Barrier replaces the traditional flexible, sheet, moisture barrier and the traditional chemical treatment of soil and materials for termite protection.

80 Claim 3

The flexible, underlay quality and damp proof course quality membranes provide the moisture and handling protection while the termite protection is provided by an agent impregnated with a compatible chemical solution or powder.

Claim 4

The single element is formed by mechanical or heat bonding the components of the Combination Moisture/Termite Barrier together.

Claim 5

The Combination Moisture/Termite Barrier is placed in a similar manner to the traditional sheet plastic moisture barrier, wrap or damp proof course.

90 Claim 6

The Combination Moisture/Termite Barrier is formed into a continuous barrier by sealing all openings against penetrations and sealing over all laps in sheets or strips using purpose made and pretreated sealing tapes and purpose made fit -

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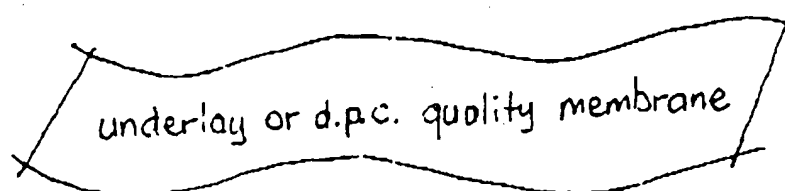
Dated this Twenty Third day of January, 1990

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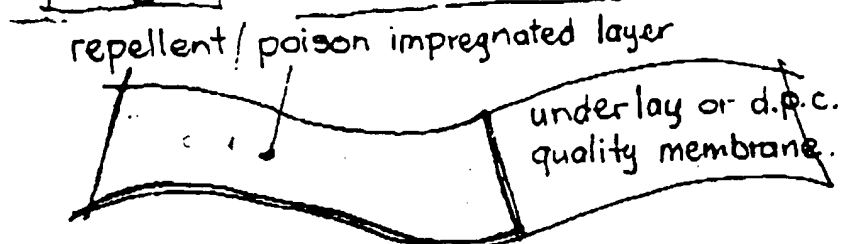
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Fig 1 Integration



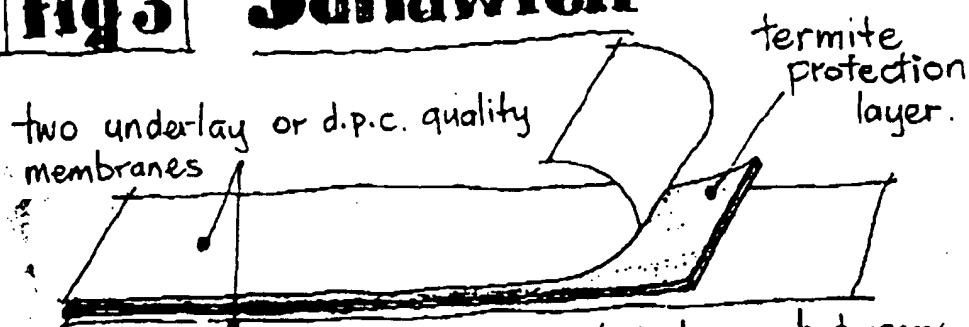
* Termite protection integrated in manufacture of the moisture barrier.

Fig2 Bonding



* Termite protection bonded to surface of membrane.

Fig3 Sandwich



* Repellent/poison impregnated layer between two underlay or d.p.c. quality membranes.

**Combination
Moisture / Termite Barrier**
Design : W. Groom.